BASAJAUN

Sustainable wood building for rural development and urban transformation.
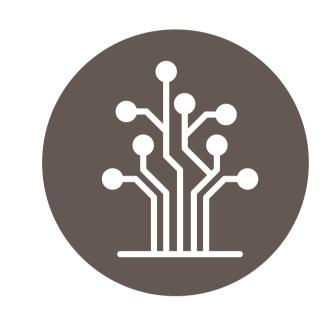
Context and objetives

Digitalization & innovation

The digital transformation is leading to disruptive changes also in forestry and wood industries. Digital twins of forests and smart buildings with wood are becoming a reality.
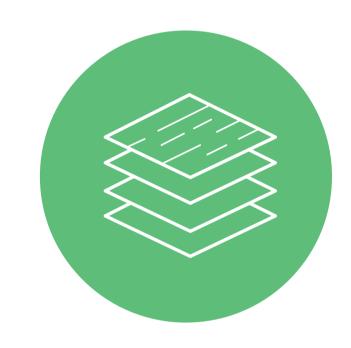
Rural Development

Forestry and wood industries provide employment and income in Europe's rural regions, which represent around 80% of the EU territory. Modernising cities through building with wood is an opportunity for more growth in disadvantaged regions.
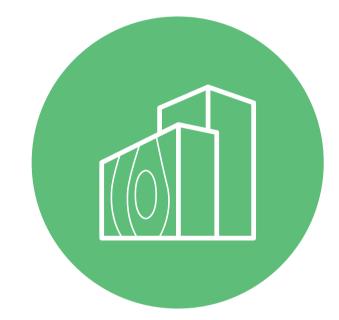
Sustainable wood construction

Wood is a circular material par excellence: It stores CO2 in solid products for decades and can be recycled both biologically and technically. By using more wood, buildings can reduce emissions and become carbon sinks..
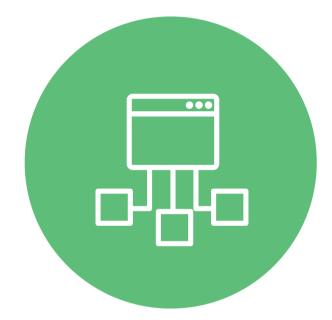
Main outcomes

Innovations

Novel bio-based materials, products and building systems

Demo buildings

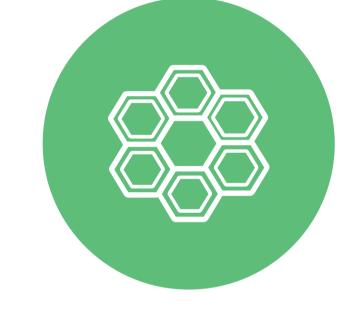Two full-scale demonstration projects realized with multiple partners

Digital twin F2DBF

Industry 4.0 platform to ensure traceability and transparency of engineering process

Studies & Reports

Building with wood addressing a holistic value chain and rural development

Co-creation platform

Upscaling of results together with more regional companies an stakeholders

Partners

The consortium comprises 29 partners from 12 countries including 8 leading research and technology organizations, 3 universities, 15 companies and 4 other public and sectoral organizations. The project is coordinated by the Tecnalia Research and Innovation Foundation in Spain.

Research

tecnalia Inspiring Business · AIMPLAS · VTT · FCBA · RISE Research Institutes of Sweden · LUND UNIVERSITY · LTH FACULTY OF ENGINEERING · Fraunhofer · Technical University of Munich · TUM · Łukasiewicz Wood Technology Institute · Centro UC de Innovación en Madera

Industry

iki COATINGS IRURENA GROUP · garnica Challenge the ordinary · ENAR envolventes arquitectónicas architectural envelopes · MOELVEN · RS RemaSawco CREATES THE DIGITAL SAWMILL · StruSoft · Elastopoli Oy · SOPREMA GROUP · BOUYGUES CONSTRUCTION · FOCCHI SINCE 1914 · &c. · UNS UNSTUDIO · overstory · OMIKRON DOKK EST 1982

Communication

Gironde LE DEPARTEMENT · BaskEgur · InnovaWood · Alpha Consult

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